



Larson Design Group®

July 23, 2014

Jimmie Joe Carl
Chemung County Stormwater Coalition
851 Chemung Street
Horseheads, NY 14845

RECEIVED JUL 23 2014

*Re: Hickory View Apartments
Big Flats, New York
Back-Up Stormwater Management Plan*

Mr. Carl:

On behalf of Larson Design Group, please find the attached documents for the stormwater contingency plan for the above-referenced project. They have been revised in response to comments received.

The following is an item-by-item response (bolded):

June 27, 2014 Letter from Chemung County Stormwater Coalition

1. *The topsoil stockpiles are shown to be within the Emergency Overflow Area, as well as in the path of any stormwater overflows. Are these stockpiles intended to be temporary?*

It is the contractor's intent to truck excess topsoil that will not be used on site to an offsite location immediately. If necessary, the contractor will stockpile soil in temporary piles in accordance with the detail on sheet D-1.

2. *The topsoil stockpile near the Wetland Overflow Berm does not appear to have any erosion & sediment controls proposed?*

As mentioned in response to comment #1, if any temporary stockpiles are needed, they will have erosion and sediment controls as seen in the detail on sheet D-1.

3. *The "FF" term/symbol should be noted on the plans. It is assumed that it refers to silt fence?*

The "FF" symbol has been changed to "SF" for silt fence, as not to cause any confusion.

4. *In regards to the proposed filling along the property line by Swale BCD, it is recommended that proposed spot elevations be provided for clarity.*

Spot elevations have been added to the drawing for clarity.

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5. *The following questions pertain to the construction details for the proposed overflow berms for the Wetland Storage Area and the Emergency Storage Area.*

-Will topsoil be stripped before construction?

-is a "key" of impermeable/compacted material proposed to be placed within the existing soil?

-What thickness of topsoil is proposed?

- Is a geotextile fabric proposed?

A detail has been added to Sheet C-2 for clarification. Topsoil will be stripped before construction, a "key" of impermeable/compacted material will be placed within the existing soil, six (6) inches of topsoil is proposed over the clay core, and no geotextile fabric is proposed for these overflow berms.

6. *In regards to the proposed fill near the Wetland Storage Area to "prevent ponding off property and maintain drainage onto site where possible", what is the elevation of this proposed fill? If stormwater overflows occur from the Wetland Storage Area, would all of these flows be directed over the proposed Wetland Overflow Berm?*

In this area, the elevation is 989.00 as indicated by the contour. This is consistent with the remainder of the berm. The 50' overflow spillway has been set at 988.60. The model shows that no water overtops the spillway elevation in the 100 year event.

7. *Consideration should be given to providing some freeboard for the proposed swale from Pond 1B. Calculations for the Pond 1B discharge pipe having a flow rate of 7.03 cubic feet per second as per the hydrology model. Using this flow rate to design the channel, a normal depth of 0.36 feet has been calculated in the 100 year storm. This allows for 0.54 feet of freeboard in the channel after it has reached steady, uniform state of flow.*

8. *In regards to the Emergency Overflow Area, the Applicant expressed concern regarding the impacts to future development to this area. The Town considered the Applicant's position and language has been agreed upon regarding the Emergency Overflow Area, including its function and future development considerations. Hence, the last paragraph of the first page of the Final Contingency Design Narrative should be modified accordingly.*

The Final Contingency Design Narrative has been modified according to the Meeting Minutes from the June 19, 2014 meeting at the Big Flats Town Hall. A copy of the revised version is attached.

9. *An updated Operation and Maintenance Agreement is required. Refer to our May 8, 2014 letter. The Town and the Applicant have met to discuss certain aspects of this agreement.*



The Town and the Applicant have not completed the Operations and Maintenance Agreement Modifications. The entities have discussed it and have agreed verbally on the modifications required. These modifications will be completed before the Town declares the project complete.

In addition to the previous comments, as per phone conversations between yourself and Maureen Bower, compost sock has been added in the swales where there is minimal bottom grading. The addition of this compost sock is to prevent any sediment from the proposed work exiting the areas and traveling through the culverts downstream. These temporary measures will be removed once the swales are stabilized. A detail has been added to sheet D-1.

Should you have any further questions concerning our responses to these comments, please feel free to contact me at Larson Design Group in Corning, NY at 607.936.7076, ext.419 or at mdo@larsondesigngroup.com

Sincerely,

LARSON DESIGN GROUP

A handwritten signature in blue ink, appearing to read 'M. O'Connell', is written over the printed name.

Michael D. O'Connell, P.E.
Project Manager

CC:

P. Dugo – Arnot
Tim Gilbert - Town
File

MVB